Amendments to the Specification:

Please replace paragraphs [0009], [0024], [0025], and [0028] of the original application with the following amended paragraphs:

-- [0009] It is an object of the invention to provide an improved method of generating charging data in a data network and an improved data network implementing the method. ~~As one aspect of the invention, the method for generating charging data as claimed in claim 1 is disclosed. As another aspect of the invention, the data network as claimed in claim 30 is disclosed. Other preferred embodiments of the invention are disclosed in the dependent claims.~~ --

-- [0024] As shown in Figure 1, it is possible to establish a data transmission connection from a subscriber terminal 100 through a public land mobile network (PLMN) 102 to a node 104 of a data network, in this case a WAP gateway 104. A connection is then established from the WAP gateway 104 through the Internet 106 to a content server 108 of a content provider providing the desired service entity. The connection is established on the basis of the Internet address of the service, i.e. the WAP gateway 104 has means 144 for transmitting a service request 126, 128 sent by the subscriber terminal 100 to the content server 108. Correspondingly, the WAP gateway 104 has means 144 for transmitting response data 130, 132, 134, and 136 generated by the content provider in the content server 108 on the basis of the service request 126, 128 to the subscriber terminal 100. The content server comprises means 142 to receive the service request and to transmit the response data to the WAP gateway 104. The WAP gateway 104 and the content server 108 are preferably implemented by hardware equipped with a microprocessor, for instance a computer with its peripherals, and with the required system and application programs. The means 144, 142 are thus preferably computer modules that implement the required functionality. The means 142, 144 can be implemented for instance in the control part by using processors and their software, whereby the functionality of the means is implemented as parts of software, for instance program modules. During the design and implementation of the system, the distribution of the functions between the software and hardware is determined for instance on the basis of the manufacturing costs and the required data processing capacity and rate. Some of the functions can be implemented by hardware. --

-- [0025] Even though Figure 1 shows the service requests and response data as packets, such as messages of a short message service, they can as well be transmitted over a circuit-switched connection, such as a data call. The essential matter is that the traffic can be analysed and the transactions related to a specific service and service entity can be identified from it. In the example of Figure 1, four response data packets 130, 132, 134, and 136 correspond to two service requests 126, 128 of the user, but other kinds of combinations are also possible. Thus, there may be one or more service requests and responses. This makes it difficult to identify what traffic belongs to which service and service entity. --

-- [0028] A billing system 122 is connected to the WAP gateway. The billing system comprises a billing unit 124 that further comprises billing means 148. A charging information system (WAP charging gateway) 110 is connected to the billing system 122, which depending on the implementation can be a separate unit or a part of the billing system 122. It can also be implemented as a part of the WAP gateway 104. The billing system 122 can, depending on the implementation, be a separate unit or a part of the WAP gateway 104, or it can belong partly to the WAP gateway while a part of the billing system remains outside the WAP gateway. --